

# **Europe Medical Fiber Optics Market By Application (Illumination, Endoscopic Imaging, Biomedical Sensing, Laser Signal Delivery, and Other Applications), By Fiber Type (Multimode Optical Fiber and Single Mode Optical Fiber), By Country, Industry Analysis and Forecast, 2020 - 2026**

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## **Abstracts**

The Europe Medical Fiber Optics Market would witness market growth of 8.3% CAGR during the forecast period (2020-2026).

With the introduction of lasers into medicine and the development of fiber-optic technologies, there has also been a visible emergence of novel medical appliances. These appliances are vastly being used for both diagnostics and therapy. These appliances have opened up the opportunity for both invasive and non-invasive treatments. It is also being used in the endoscopic surgery to imaging diagnostics in so-called keyhole technologies. Generally, the low power optical fibers are used for diagnostic purposes. However, some of the surgical procedures normally need the transmission of high power up to 200 W in CW operation. Moreover, acquiring medical certification for optical fibers used in the clinic is a great challenge for marketers.

Some of the surgical laser applications include endoscopic vaporization, enucleation of the benign prostate, and fragmentation of kidney stones in urology. The endoscopic procedure helps in the destruction and removal of tumorous tissue in the bronchial branches in pulmonology. Its application is also seen in the endoluminal sclerosis of varicose veins; and tissue ablation in the nose and throat. The endoscopes consist of optical fibers that are used in various operations to transmit light into the internal organs. This light is used to collect clear image data of internal organs.

The use of optical fibers into the medical setting has helped the surgeon to perform safer surgeries. Also, it has helped in better diagnostic calculations which lead to an increase in the recovery time of the patient. The favorable qualities of optical fibers, such as their amenability to sterilization, lightweight, and small size provide many opportunities for the development of medical devices.

Based on Application, the market is segmented into Illumination, Endoscopic Imaging, Biomedical Sensing, Laser Signal Delivery, and Other Applications. Based on Fiber Type, the market is segmented into Multimode Optical Fiber and Single Mode Optical Fiber. Based on countries, the market is segmented into Germany, UK, France, Russia, Spain, Italy, and Rest of Europe.

The market research report covers the analysis of key stake holders of the market. Key companies profiled in the report include MKS Instruments, Inc. (Newport Corporation), IPG Photonics Corporation, Coherent, Inc., LEONI Group, Fiberoptics Technology, Inc., Timbercon, Inc. (Radiall America, Inc.), Gulf Fiberoptics, Inc., Sunoptic Technologies, LLC, Vitalcor, Inc., and Infinite Electronics, Inc. (Integra Optics, Inc.).

## Scope of the Study

### Market Segmentation:

#### By Application

Illumination

Endoscopic Imaging

Biomedical Sensing

Laser Signal Delivery

Other Applications

#### By Fiber Type

Multimode Optical Fiber

## Single Mode Optical Fiber

### By Country

Germany

UK

France

Russia

Spain

Italy

Rest of Europe

### Companies Profiled

MKS Instruments, Inc. (Newport Corporation)

IPG Photonics Corporation

Coherent, Inc.

LEONI Group

Fiberoptics Technology, Inc.

Timbercon, Inc. (Radiall America, Inc.)

Gulf Fiberoptics, Inc.

Sunoptic Technologies, LLC

Vitalcor, Inc.

Infinite Electronics, Inc. (Integra Optics, Inc.)

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